Title: Low-Pass Filter Transmission Line With Integral Electro-Absorption Modulator

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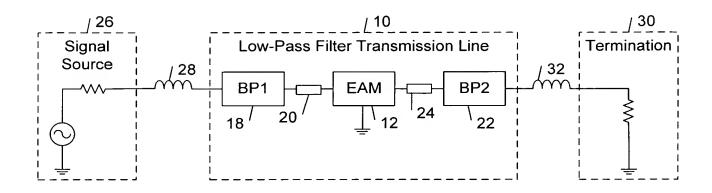
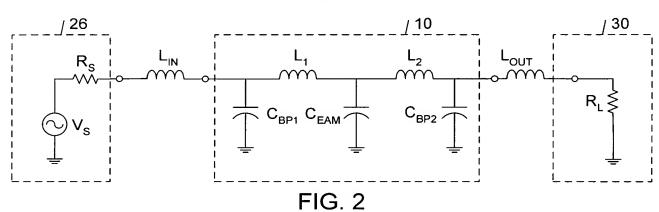


FIG. 1



m1 freq=31.00GHz S(1,1)=0.181 /-93.089 impedance = Z0 \* (0.919 - j0.344) freq=29.00GHz

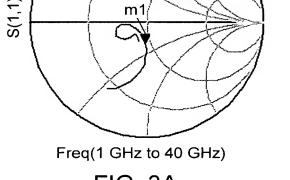


FIG. 3A

FIG. 3B

20

Frequency (GHz)

35

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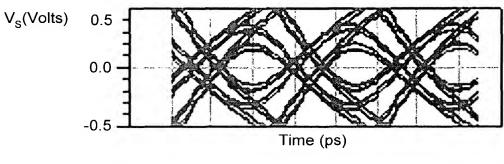


FIG. 4A

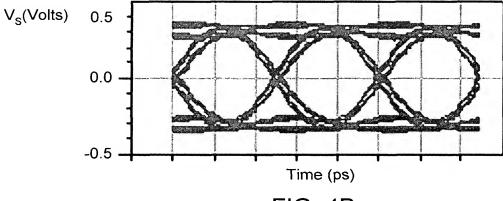


FIG. 4B

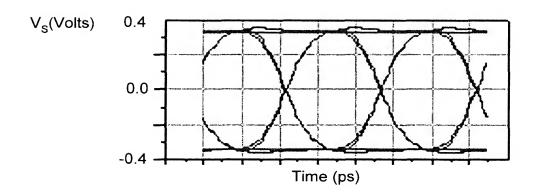
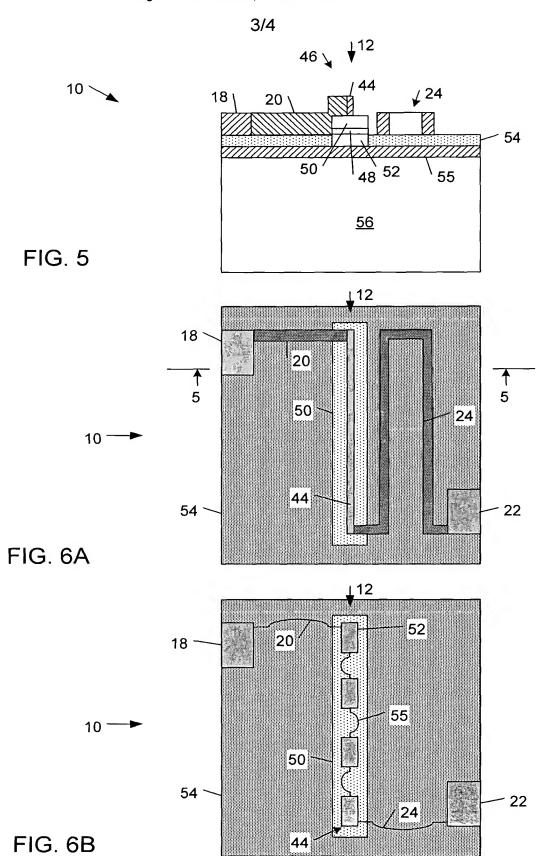


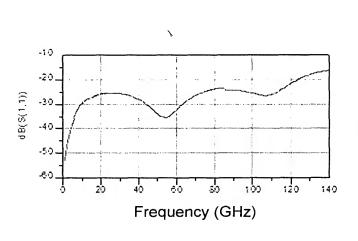
FIG. 4C

Title: Low-Pass Filter Transmission Line With Integral Electro-Absorption Modulator



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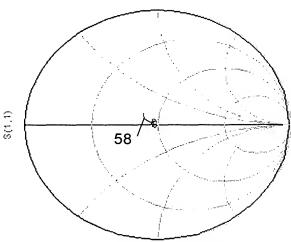
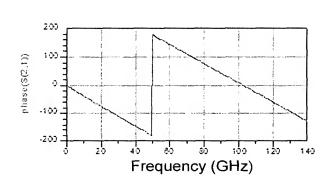


FIG. 7A

Freq(1 GHz to 140 GHz) FIG. 7B



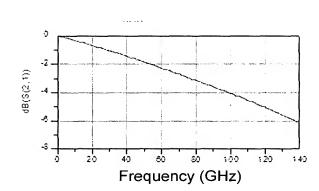
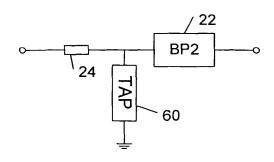


FIG. 7C

FIG. 7D



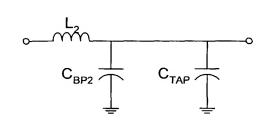


FIG. 8A

FIG. 8B